

mo470103
Task ID# 6052
cc: April

Form MR-REV-att (DOGM – Revise/Amend Change Form)
(Revised September 14, 2005)

Application for Mineral Mine Plan Revision or Amendment

Operator: <u>Red Leaf Resources, Inc.</u>	
Mine Name: <u>Southwest #1</u>	File Number: M/ <u>047</u> / <u>0103</u>

Provide a detailed listing of all changes to the mining and reclamation plan that will be required as a result of this change. Individually list all maps and drawings that are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise or amend the existing Mining and Reclamation Plan. Include page, section and drawing numbers as part of the description.

DETAILED SCHEDULE OF CHANGES TO THE MINING AND RECLAMATION PLAN			
			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Page vi (of the LMD NOI)
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Page 1
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix W - Exploration Permit Activity Locations
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix W - Table W-1
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix W - Figure W-1
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
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I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments and obligations, herein.

JAY VANCE
Print Name

Jay Vance, Manager, Environmental Permitting
Sign Name, Position
25-Apr-2014
Date

Return to:

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Phone: (801) 538-5291 Fax: (801) 359-3940

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FOR DOGM USE ONLY:	
File #:	M/ /
Approved:	
Bond Adjustment: from (\$)	
to \$	

APPENDIX I: Norwest Geotechnical Analysis

**APPENDIX J: Draft Health Safety Security and Environment Management
Policy**

APPENDIX K: Water Management Strategy: Executive Summary

APPENDIX L: Cultural Resources Report: Executive Summary

APPENDIX M: Soil Sampling

**APPENDIX N: Department of Environmental Quality Division of
Water Quality Groundwater Permit**

**APPENDIX O: County Permits: Building Permit and Road Maintenance
Agreement**

**APPENDIX P: Department of Wildlife Resources and DWR Conservation
Data Center Letters and Emails**

APPENDIX Q: Operations Practices

APPENDIX R: Letter Regarding Bentonite Amended Soil (BAS) Analysis

APPENDIX S: Early Production System (EPS) Capsule

APPENDIX T: Selected Oil and Gas Well Logs Near the Project Area

**APPENDIX U: Additional Information about Area Cross Sections and
Fence Diagrams**

APPENDIX V: Summary of Compliance Monitoring Requirements

APPENDIX W: Exploration Permit Activity Locations

Notice of Intention to Commence Large Mining Operations

Red Leaf Resources, Inc.

Southwest #1 Project, Uinta Basin Introduction and Project Background

Red Leaf Resources, Inc. ("RLR" or "Red Leaf") holds oil shale mineral leases on 16,838 acres on School and Institutional Trust Land properties in the Uinta Basin.

RLR has previously performed process testing under its Exploration Permit #E/047/0055. Exploration activities included a core drilling program for resource assessment. Total acreage of the exploration activity was 5.8 acres. This acreage incorporated 4.7 acres for excavation, process testing, and roads. An additional 1.1 acres was temporarily disturbed for purposes of drilling and resource evaluation during June 2010. All drill hole locations were reclaimed by August 2010.

RLR's Exploration permit was converted to a Small Mining Operation (SMO) in January 2011, with final approval for operations on January 27, 2011. The SMO activities encompass 4.97 acres for mining, process operations, and road access.

RLR filed for an exploration permit, Southwest #2, E/047/0062, on March 24, 2011 for purposes of conducting additional exploration activities. Activities associated with this exploration permit were incorporated into this LMO NOI in April 2014, and the exploration permit was terminated. For information purposes, the disturbed areas under E/047/0062 for Southwest #2 and related holes are outlined in Appendix W, Exploration Permit Activity Locations.

It is now RLR's intention to expand activities at the Southwest #1 small mine site and convert it to a Large Mining Operation (LMO) as identified in this NOI. The disturbed area under E/047/0062 will also be included under the planned Large Mine Operations.

The location of RLR's Southwest #1 project includes acreage held in its SITLA Mineral Leases (ML) 50150 and 43374. The acreage associated with this mine plan from ML 50150 includes

Appendix W

Exploration Permit Activity Locations

Table W-1 and Figure W-1, attached to and made part of this appendix, outline the locations of holes associated with Red Leaf's former exploration permit, Southwest #2, E/047/0062.

TABLE W-1
Exploration Permit Activity Locations

Pre Drill Hole No.(1)	Hole Diameter (in)	Township	Range	Section	1/4 Sect.	1/4 Sect.	NAD 27 Northing	Easting	Access Rd Length (feet)(2)	Pad Area (acres)	Total Area (acres)	Target Depth (feet)
UG-1	7-7/8	13S	23E	36	SW	NW	485123	2587847	0	0.0413	0.041	169
DG-1	7-7/8	13S	23E	30	NW	SW	489165	2593007	270	0.0413	0.116	140
DG-2	7-7/8	13S	23E	30	NE	NW	491551	2594634	25	0.0413	0.048	187
DG-3	7-7/8	13S	23E	30	NE	NE	492043	2597272	425	0.0413	0.158	126
DG-4	7-7/8	13S	23E	19	NW	NW	496046	2593977	75	0.0413	0.062	224
DG-5	7-7/8	13S	23E	19	SE	NE	495735	2597591	0	0.0413	0.041	136
H-1	5	13S	23E	30	NW	SW	489171	2593008	1000	0.0413	0.317	143
H-2	5	13S	23E	30	SW	NE	489751	2595634	770	0.0413	0.253	99.5
H-3	5	13S	23E	29	NW	NW	491346	2598138	305	0.0413	0.125	100.0
WX-1	5	13S	23E	30	NE	SW	488410	2594507	800	0.0413	0.262	37.8
WX-2	5	13S	23E	30	NE	SW	488459	2594505	25	0.0413	0.048	54.8
WX-3	5	13S	23E	30	NE	SW	488598	2594461	25	0.0413	0.048	65.0
WX-4	5	13S	23E	30	NE	SW	488338	2594741	25	0.0413	0.048	38.3
WX-5	5	13S	23E	30	NE	SW	488416	2594727	25	0.0413	0.048	38.2
WX-6	5	13S	23E	30	NE	SW	488453	2594721	25	0.0413	0.048	38.2
WX-7	5	13S	23E	30	NE	SW	488280	2594752	25	0.0413	0.048	38.1
WX-8	5	13S	23E	30	NE	SW	488201	2594761	25	0.0413	0.048	38.7
RL-3A(1)	7-7/8	13S	23E	30	NE	SW	490653	2594075	10	0.0413	0.044	175
RL-3B(1)	7-7/8	13S	23E	30	NE	SW	490632	2594110	10	0.0413	0.044	175
RL-3C(1)	7-7/8	13S	23E	30	NE	SW	490607	2594145	10	0.0413	0.044	175
RL-3D(1)	7-7/8	13S	23E	30	NE	SW	490645	2594174	10	0.0413	0.044	175
RL-3E(1)	7-7/8	13S	23E	30	NE	SW	490670	2594144	10	0.0413	0.044	175
RL-3F(1)	7-7/8	13S	23E	30	NE	SW	490693	2594119	10	0.0413	0.044	175
Water Well #2 8		13S	23E	30	SE	SW	486879	2595228	1660	0.65	1.107	1700 to 2500
Explor Area		13S	23E	30	SE	SW	487365	2594496			5.7	200,000 yd3 *
								Sub-Total	5565	1.60	8.8	
								Total	16431	4.48	14.7	

Notes:

1. Locations of holes shown on Figure W-1
2. Width of access roads - 12 ft.

TABLE W-1 (cont'd)
Exploration Permit Activity Locations

Pre Drill Hole No.	Hole Diameter (in)	Township	Range	Section	1/4 Sect.	1/4 Sect.	NAD 27 Northing	Easting	Access Rd Length (feet)(3)	Pad Area (acres)(3)	Total Area (acres)(3)	Target Depth
(2)												
B17	1	13S	23E	30	NE	SW	488234	2594319	-	-	-	15
B18	1	13S	23E	30	SW	SW	487938	2594143	-	-	-	13
B19	1	13S	23E	30	SE	SW	487719	2594390	-	-	-	8
B20	1	13S	23E	30	NE	SW	488057	2594658	-	-	-	12.5
B21	1	13S	23E	30	SE	SW	487923	2594858	-	-	-	14.5
B22	1	13S	23E	30	SE	SW	487957	2595203	-	-	-	12.5
B23	1	13S	23E	30	SE	SW	487742	2595399	-	-	-	14.5
B24	1	13S	23E	30	SE	SW	487883	2595560	-	-	-	12
(2)												
B27	1	13S	23E	30	NW	SE	488388	2596357	-	-	-	3
B28	1	13S	23E	30	NW	SE	488579	2596628	-	-	-	6.5
B29	1	13S	23E	30	NW	SE	488888	2596785	-	-	-	4.5
B30	1	13S	23E	30	NE	SE	488707	2596972	-	-	-	6
B31	1	13S	23E	30	NE	SE	488818	2597222	-	-	-	9.5
B32	1	13S	23E	30	NE	SE	488641	2597799	-	-	-	9
B33	1	13S	23E	30	NE	SE	488437	2597549	-	-	-	7
B34	1	13S	23E	30	NE	SE	488294	2597385	-	-	-	3
B35	1	13S	23E	30	NE	SE	488263	2597590	-	-	-	7
B36	1	13S	23E	30	NE	SE	488173	2597465	-	-	-	2
B37	1	13S	23E	30	NE	SE	488076	2597406	-	-	-	9
B38	1	13S	23E	30	SE	SE	487895	2597371	-	-	-	10
B39	1	13S	23E	30	SE	SE	488233	2597565	-	-	-	4
B40	1	13S	23E	30	SE	SE	488164	2597365	-	-	-	5.5
B41	1	13S	23E	30	SE	SE	488134	2597462	-	-	-	8
B42	1	13S	23E	30	SE	SE	488088	2597311	-	-	-	4.5
B43	1	13S	23E	30	SE	SE	488040	2597413	-	-	-	9
B44	1	13S	23E	30	SE	SE	487960	2597356	-	-	-	10.5

Notes:

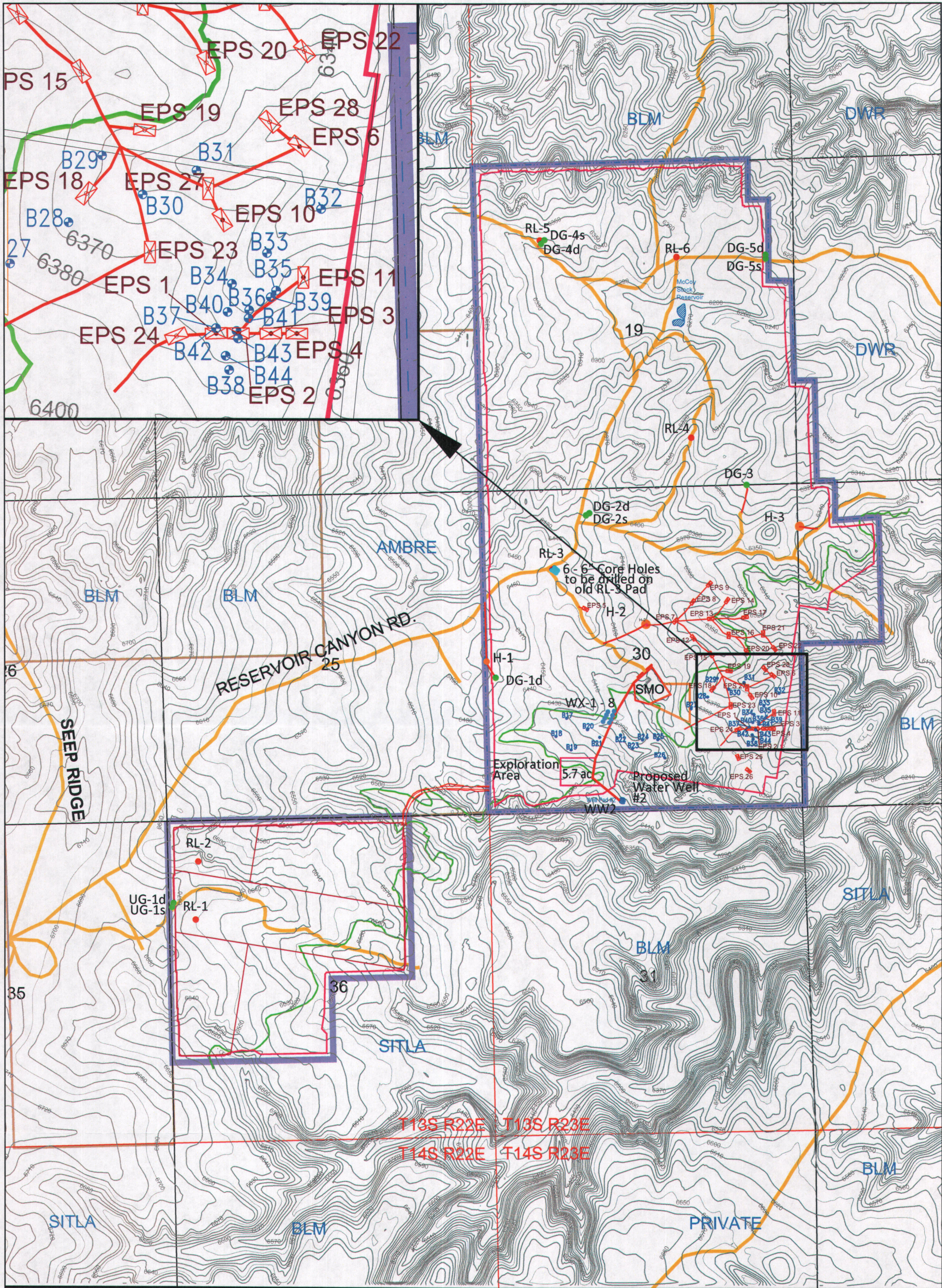
1. Locations of holes shown on Figure W-1
2. Proposed holes B1 through B16, B25, and B26 were not drilled and are no longer intended to be drilled.
3. B-series holes were Geoprobe holes using light, off-road vehicles/equipment. No road was required.

TABLE W-1 (cont'd)
Exploration Permit Activity Locations

Pre Drill Hole No.	Hole Diameter (in)	Township	Range	Section	1/4 Sect.	1/4 Sect.	NAD 27 Northing	Easting	Access Rd Length (feet)(2)	Pad Area (acres)(3)	Total Area (acres)	Target Depth (feet)
EPS1	2.5	13S	23E	30	SE	SE	488065	2597312	550	0.115	0.267	75
EPS2	2.5	13S	23E	30	SE	SE	488065	2597415	3	0.115	0.116	65
EPS3	2.5	13S	23E	30	SE	SE	488065	2597566	51	0.115	0.129	75
EPS4	2.5	13S	23E	30	SE	SE	488065	2597686	20	0.115	0.121	85
EPS5	2.5	13S	23E	30	NW	SE	488590	2597342	755	0.115	0.323	65
EPS6	2.5	13S	23E	30	SE	NE	488325	2597717	402	0.115	0.226	65
EPS7	2.5	13S	23E	30	NE	SW	490020	2594627	61	0.115	0.132	25
EPS8	2.5	13S	23E	30	NE	SW	489821	2596100	437	0.115	0.235	90
EPS9	2.5	13S	23E	30	NE	SW	490426	2596658	48	0.115	0.128	90
EPS10	2.5	13S	23E	30	SE	NE	489278	2596688	741	0.115	0.319	100
EPS11	2.5	13S	23E	30	SE	NE	489883	2597245	1088	0.115	0.415	50
EPS12	3	13S	23E	30	NE	SW	490187	2596436	400	0.115	0.225	90
EPS13	3	13S	23E	30	NE	SW	489589	2596974	413	0.115	0.229	65
EPS14	3	13S	23E	30	NE	SE	488712	2596711	340	0.115	0.209	50
EPS15	3	13S	23E	30	SE	NW	489612	2597539	531	0.115	0.261	50
EPS16	2.5	13S	23E	30	SW	NE	490530	2595506	466	0.115	0.243	135
EPS17	2.5	13S	23E	30	SW	NE	490537	2596116	429	0.115	0.233	105
EPS18	2.5	13S	23E	30	SW	NE	490088	2595410	369	0.115	0.217	112
EPS19	2.5	13S	23E	30	SW	NE	490200	2596116	137	0.115	0.153	110
EPS20	2.5	13S	23E	30	SE	NE	490530	2596897	447	0.115	0.238	65
EPS21	2.5	13S	23E	30	SW	NE	489890	2596619	68	0.115	0.134	59
EPS22	2.5	13S	23E	30	NW	SE	489330	2595923	633	0.115	0.289	86
EPS23	2.5	13S	23E	30	NE	SE	489248	2597052	767	0.115	0.236	47
EPS24	2.5	13S	23E	30	NE	NW	491315	2595069	1350	0.115	0.487	135
EPS25	2.5	13S	23E	30	SE	NW	490330	2594511	360	0.115	0.214	142
Sub-Total									10866	2.88	5.9	

Notes:

- Locations of holes shown on Figure W-1
- Width of access roads - 12 ft.



LEGEND

- Existing Roads
- Topography Contour (10ft Intervals)
- RL Existing Drill Hole
- UG/DG Proposed Monitoring Well
- WX Proposed Weathering Holes
- H Proposed Horizon Holes
- WW Proposed Water Well
- C6 Proposed 6 inch Core Holes
- New Drill Roads
- Red Leaf Resources Mineral Lease Boundary/Proposed Permit Boundary
- Ambre Energy
- Exploration areas include the 5.7 ac exploration parcel and road to SMO and to WW2
- B34 Geoprobe Holes
- EPS10 EPS Holes and Drill Pads

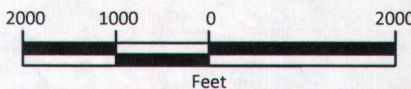


FIGURE W - 1



Red Leaf Resources
Exploration Permit
Activity Locations

DATE: 04/25/14

FILE: 107.20/Environmental/Exploration/relief

/Attachment 0-000 Plan 7-10-12.dwg

SCALE:
NOTED

NORWEST
CORPORATION



Corporate Office

10808 S. River Front Parkway, Suite 200
South Jordan, UT 84095
Office: 801.878.8100
Fax: 801.878.8101

RECEIVED

APR 25 2014

DIV. OF OIL, GAS & MINING

April 25, 2014

April Abate
Department of Natural Resources, Division of Oil Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Subject: MR-REV for Southwest #1 – M0470103 – Exploration Permit Amendment –
Application for Exploration Permit Bond Release – Ten (10) Additional Core Holes

Dear Ms. Abate:

Red Leaf Resources, Inc. (Red Leaf), hereby requests that our Exploration Permit (E0470062) be added to our Large Mining Operation (LMO) Notice of Intention (NOI) (M0470103), including the recently requested ten (10) core holes. Red Leaf also submits herewith an application for release of the Exploration Permit bond.

The MR-REV with replacement and additional pages for this request is attached, along with the Form MR-Site/Bond Release application and its associated attachments. Redlined replacement pages are also provided for informational purposes.

Should you have any questions about this request, please contact me at 801-878-8100.

Sincerely,

Jay K. Vance, P.E.
Manager, Environmental & Permitting

Enclosures

c: John Blake, SITLA (School & Institutional Trust Lands Administration)